

Title (en)

Optical coherence tomography corneal mapping apparatus

Title (de)

Optisches Kohärenz-Tomographie-Gerät zur Darstellung der Kornea

Title (fr)

Appareil pour la représentation tomographique par cohérence optique de la cornée

Publication

**EP 0705562 A1 19960410 (EN)**

Application

**EP 95114600 A 19950916**

Priority

US 31814194 A 19941005

Abstract (en)

Optical coherence tomography ("OCT") corneal mapping apparatus (100) which includes, in a first aspect of the present invention: (a) an OCT apparatus (1) which is comprised of apparatus for altering a reference beam path; (b) raster scanner (5,6) for raster scanning sampling optical output from the OCT apparatus; (c) a curved mirror (7) for transferring the sampling optical output from the raster scanner to an eye (8) and for transferring the sampling optical output reflected from the eye back to the OCT apparatus through the raster scanner; and (d) an analyzer, coupled to the raster scanner, the altering apparatus, and reference and sampling interaction output from the OCT apparatus for causing: (i) the raster scanner to move the sampling optical output to points in a raster; (ii) the altering apparatus to alter the length of the reference beam path over a predetermined amount at each of the points; and (iii) determination of the corneal mapping from the reference and sampling interaction output at the points in the raster.

IPC 1-7

**A61B 3/107**

IPC 8 full level

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Citation (applicant)

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Citation (search report)

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